

ANNALS *of* PHYSICS

Editor

Philip M. Morse

Assistant Editors

Bernard T. Feld

Herman Feshbach

Richard Wilson

Editorial Council

A. Abragam

V. L. Fitch

V. L. Telegdi

J. Bardeen

J. L. Greenstein

V. F. Weisskopf

D. A. Bromley

P. C. Martin

E. P. Wigner

S. D. Drell

J. Schwinger

D. H. Wilkinson

W. M. Fairbank

I. Talmi

A. Zichichi

VOLUME 93
1975

ACADEMIC PRESS

New York and London

A Subsidiary of Harcourt Brace Jovanovich, Publishers

Copyright © 1975 BY ACADEMIC PRESS, INC.

ALL RIGHTS RESERVED

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

Printed by the St. Catherine Press, Ltd. Bruges, Belgium

CONTENTS OF VOLUME 93

NUMBER 1-2, SEPTEMBER 5, 1975

R. F. ALVAREZ-ESTRADA AND J. SOLANA. Interaction, Diffraction, and Scattering of a Two-Particle System by a Thin Crystal	1
D. B. ION AND A. C. MIHUL. The Isospin and Isospin-Spin Polarizations of Interacting Hadrons	41
D. B. ION AND A. C. MIHUL. The Nucleon Isospin-Polarization and Isospin Bounds in Pion-Nucleon Scattering	55
RAINER W. HASSE. Inertia, Friction, and Angular Momentum of an Oscillating Viscous Charged Liquid Drop under Surface Tension . . .	68
ALFRED SCHILD. Fokker Action Principles with Self-Action. I. General Theory; Outline of a Program for Constructing Models of Elementary Particles	88
C. P. WINLOVE AND D. J. RAINE. Pair Creation and the Gowdy Model . .	116
A. B. HENRIQUES, B. H. KELLETT, AND R. G. MOORHOUSE. General Three-Spinor Wave Functions and the Relativistic Quark Model	125
S. A. GURVITZ, Y. ALEXANDER, AND A. S. RINAT. Noneikonal Approach to the Scattering of Hadrons from Nuclei. I. General Theory	152
HARALD FRITZSCH AND PETER MINKOWSKI. Unified Interactions of Leptons and Hadrons	193
SIDNEY COLEMAN, R. JACKIW, AND LEONARD SUSSKIND. Charge Shielding and Quark Confinement in the Massive Schwinger Model	267
J. A. LOCK AND L. L. FOLDY. Meson Exchange Currents in Deuteron Electrodisintegration and the Nucleon Axial Vector Form Factor . .	276
R. D. VIOLIER. High-Energy Proton-Nucleus Scattering and Correlations	335
W. S. PONG AND N. AUSTERN. Antisymmetrization and Core Excitation in Deuteron-Nucleus Scattering	369
ABSTRACTS OF PAPERS TO APPEAR IN FUTURE ISSUES	402
AUTHOR INDEX	404

The Subject Index for Volume 93 will appear in the December 1975 issue as part of a cumulative index for the year 1975.

